Apolipoprotein E/APOE3 Protein, Human (HEK293, His)

Cat. No.:	HY-P7531
Synonyms:	rHuApolipoprotein E, His; ApoE; Apolipoprotein E; APOE3
Species:	Human
Source:	HEK293
Accession:	P02649 (K19-H317)
Gene ID:	348
Molecular Weight:	36-39 kDa

PROPERTIES

AA Sequence	K V E Q A V E T E P E P E L R Q Q T E W Q S G Q R W E L A L G R F W D Y L R W V Q T L S E Q V Q E E L L S S Q V T Q E L R A L M D E T M K E L K A Y K S E L E E Q L T P V A E E T R A R L S K E L Q A A Q A R L G A D M E D V C G R L V Q Y R G E V Q A M L G Q S T E E L R V R L A S H L R K L R K R L L R D A D D L Q K R L A V Y Q A G A R E G A E R G L S A I R E R L G P L V E Q G R V R A A T V G S L A G Q P L Q E R A Q A W G E R L R A R M E E M G S R T R D R L D E V K E Q V A E V R A K L E E Q A Q Q I R L Q A E A F Q A R L K S W F E P L V E D M Q R Q W A G L V E K V Q A A V G T S A A P V P S D N H
Biological Activity	Measured in a cell proliferation assay using SH-SY5Y cells.The ED_{50} for this effect is ≤15.14 ng/mL, corresponding to a specific activity is ≥6.61×10^4 units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 5% Trehalose,5% Mannitol, 0.02% Tween80, pH 8.0 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ApoE isoform specifically inhibits lipid-particle-mediated cholesterol release from neurons. Although apoE and a lipid

particle are lipid acceptors, when apoE and a lipid particle form a complex, apoE on the particle surface inhibits the lipid particle-mediated cholesterol release from cells in an apoE-concentration-dependent manner[2].

REFERENCES

[1]. Gong JS, et al. Apolipoprotein E (ApoE) isoform-dependent lipid release from astrocytes prepared from humanApoE3 and ApoE4 knock-in mice. J Biol Chem. 2002 Aug 16;277(33):29919-26.

[2]. Gong JS, et al. Novel action of apolipoprotein E (ApoE): ApoE isoform specifically inhibits lipid-particle-mediated cholesterol release from neurons. Mol Neurodegener. 2007 May 15;2:9.

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